M/035/002

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Paula H. Doughty
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Kennecott

February 19, 1999

Mr. Wayne Hedberg, Permit Supervisor
Minerals Reclamation Program
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801

RE: Transmittal of Kennecott Utah Copper's 1999 Reclamation Activities Plan for Permit Number M/035/002

Dear Mr. Hedberg:

Enclosed is a copy of Kennecott Utah Copper's Reclamation Activities Plan for 1999. Only work that will occur within the boundaries of Permit Number M/035/002 has been included in this report. Reclamation projects that are completed in other areas of the Oquirrh Range will be described in the annual reports for 1999. If you have any questions about this report or would like to visit some of the sites, please call me at 252-3257.

Sincerely,

Paula H. Doughty

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Manager, Environmental Compliance

PHD/rkb:lr

Enclosure

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KENNECOTT UTAH COPPER
RECLAMATION ACTIVITIES PLAN FOR 1999
PERMIT NUMBER M/035/002

This report summarizes the reclamation activities planned within the boundaries of Permit Number M/035/002. This report is submitted in partial fulfillment of the requirements of the September 28, 1978 Mined Land Reclamation Contract and of the Annual Report of Mining Operations. Individual reclamation projects are described below.

Area #1 Tailings Impoundment and Stepback Revegetation

Location: North and northwest of Magna, Utah (several sections within T1S, R2W and R3W).

Description: This is an ongoing project that involves the revegetation of exposed slopes, dikes and stepback areas on the existing Tailings Impoundment. Additional work is being conducted to revegetate areas disturbed by construction associated with the North Impoundment project. The first 500 acre stepback on the west side of the impoundment has been completed and will be planted in 1999.

Purpose: To stabilize tailings, provide fugitive dust and erosion control, and establish wildlife habitat.

Activity: Perform contouring and leveling on exposed areas as required. Drill seed or hydroseed fast growing grasses as an interim reclamation measure in recently disturbed or exposed areas. Hydroseed, drill seed or hand plant grasses, legumes, herbaceous plants, shrubs and trees in areas planned for permanent reclamation. Apply biosolids, fertilizer and mycorrhizae inoculation in selected areas. Plant about 3,000 trees on selected areas on and around the embankment. Maintenance and rehabilitation of existing drip irrigation systems will also be conducted.

Area: Approximately 800 acres will be reclaimed.

Schedule: Spring and Fall of 1999 for most long-term reclamation activities. Year-round dust suppression activities on recently disturbed surfaces.

Area #2 Little Valley Railroad Cuts

Location: Approximately one and a half miles southwest of the town of Magna, Utah (Section 31, T1S, R2W)

Description: Hydroseeding of bare slopes composed of rock and soil from overlying railroad cuts.

Purpose: To stabilize the slopes, improve wildlife habitat and improve aesthetics.

Activity: The slopes will be hydroseeded with a mixture of grasses, legumes, herbaceous plants and shrubs.

Area: About 30 acres will be seeded.

Schedule: Work will be conducted in the Spring or Fall.

Area #3 Queen Waste Rock Disposal Area

Location: Immediately south of the Bingham Pit about five miles southwest of Copperton, Utah (Section 2, T4S, R3W).

Description: Direct planting of mycorrhizal-inoculated tree and shrub seedlings onto flat and angle of repose waste rock surfaces. The waste rock soils in this area have pH and salinity conditions that are thought to be favorable for plant growth.

Purpose: To stabilize waste rock disposal area slopes, increase evapotranspiration and reduce infiltration and runoff. To establish wildlife habitat and also to test the efficacy of direct planting into waste rock soils with these physical and chemical characteristics.

Activity: The upper surface of the Queen Waste Rock Disposal Area will be recontoured to direct runoff towards a

central collection point. Trees and shrubs will be planted at a density of about 435 per acre. The mycorrhizal-inoculated seedlings will be planted directly into soils forming on the waste rock.

Area: About 20 acres.

Schedule: Earthwork in the Summer and planting in the Fall of 1999.

Area #4 Southeast Corner of Pit Benches

Location: Benches above 7400 feet mean sea level on the south side of the Bingham Pit, about 4.5 miles southwest of Copperton, Utah (Section 35, T3S, R3W).

Description: Aerial seeding of approximately 80 acres on the south side of the pit. Also direct planting of mycorrhizal-inoculated trees and shrubs into soils forming on selected pit benches. The soils in this area have pH and salinity conditions that are thought to be favorable for plant growth.

Purpose: To increase evapotranspiration and reduce infiltration and runoff on the benches. To establish wildlife habitat and to test the success of aerial seeding and direct planting into soils with various physical and chemical characteristics.

Activity: Approximately 80 acres will be aerially seeded with a mix of trees, shrubs and grasses. Trees and shrubs will be planted at a density of about 435 trees per acre on three one acre test plots. The plots will be established on soils forming over limestone, quartzite and monzonite exposures. The mycorrhizal-inoculated trees and shrubs will be planted directly into soils forming on the benches.

Area: About 3 acres will be hand planted and 80 will be aerially seeded.

Schedule: Spring and Fall of 1999.

Area #5 Yosemite/Castro Waste Rock Disposal Area

Location: One-half mile southeast of the Bingham Pit, about five miles southwest of Copperton, Utah (Section 1, T4S, R3W).

Description: Direct planting of mycorrhizal-inoculated tree and shrub seedlings onto flat and angle of repose waste rock surfaces. The waste rock soils in this area have pH and salinity conditions that are considered marginal to favorable for plant growth.

Purpose: To test the efficacy of direct planting into waste rock soils with various physical and chemical characteristics. To stabilize the waste rock disposal area slopes and to increase evapotranspiration and reduce infiltration and runoff.

Activity: Trees and shrubs will be planted at an approximate density of 435 per acre in two 2-acre test plots and three 1-acre test plots. A limited amount of earthwork may be conducted first to smooth the test plot surfaces. Two of the test plots will be on an angle of repose slopes. The mycorrhizal-inoculated seedlings will be planted directly into soils forming on the waste rock.

Area: About 7 acres total.

Schedule: Fall of 1999.